

Title (en)  
HIGH PRESSURE AND HIGH TEMPERATURE CHROMATOGRAPHY

Title (de)  
HOCHDRUCK- UND HOCHTEMPERATUR-CHROMATOGRAPHIE

Title (fr)  
CHROMATOGRAPHIE À HAUTE PRESSION ET À HAUTE TEMPÉRATURE

Publication  
**EP 2223100 A1 20100901 (EN)**

Application  
**EP 08862623 A 20080925**

Priority  
• US 2008077664 W 20080925  
• US 95804907 A 20071217

Abstract (en)  
[origin: US2009151426A1] Methods and related systems are described for high pressure chromatographic analysis. The described system includes a flowpath adapted to flow a mobile phase and the sample at high pressures, an injector adapted to inject the fluid sample into a flowpath, a separation column adapted to operate at high pressures for separating various components, a detector and a processor that calculates the amount of at least one component of the fluid sample. The system can operate at pressures above 20 atm or even 100 atm, and temperatures above about 100 degrees Celsius. The system can be deployed in a wellbore in a subterranean rock formation, and include a fluid collection system for obtaining the fluid sample downhole. The system can also be located close to a wellhead and includes a tap in fluid communication with a surface flowline carrying produced fluids and the injector.

IPC 8 full level  
**G01N 30/22** (2006.01); **G01N 33/28** (2006.01)

CPC (source: EP US)  
**G01N 30/22** (2013.01 - EP US); **G01N 30/32** (2013.01 - EP US); **G01N 30/88** (2013.01 - EP US); **G01N 33/2823** (2013.01 - EP US); **G01N 2030/8809** (2013.01 - EP US); **G01N 2030/8854** (2013.01 - EP US)

Citation (search report)  
See references of WO 2009079059A1

Citation (examination)  
• CN 1536359 A 20041013 - DALIAN CHEMICAL PHYSICS INST [CN]  
• US 2004218176 A1 20041104 - SHAMMAL MICHAEL [US], et al  
• KWA T L: "High-pressure chromatography: I. A precision high-pressure gas chromatograph for isobaric-isothermal measurements", JOURNAL OF CHROMATOGRAPHY, ELSEVIER SCIENCE PUBLISHERS B.V, NL, vol. 270, 1 January 1983 (1983-01-01), pages 105 - 115, XP002506190, ISSN: 0021-9673, DOI: 10.1016/S0021-9673(01)96355-1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**US 2009151426 A1 20090618; US 8028562 B2 20111004; EP 2223100 A1 20100901; WO 2009079059 A1 20090625**

DOCDB simple family (application)  
**US 95804907 A 20071217; EP 08862623 A 20080925; US 2008077664 W 20080925**